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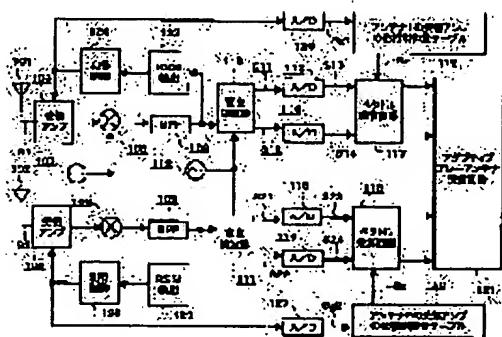
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(54) ARRAY ANTENNA RECEIVER AND PHASE ROTATION AMOUNT CORRECTION METHOD FOR RECEPTION SIGNAL

(57) *Abstract:*

PROBLEM TO BE SOLVED: To correct a phase rotation amount so that an input signal to an adaptive array antenna reception circuit keeps a phase difference at antenna terminals.

SOLUTION: A phase control variable table 119 (120) uses a gain denoting a received gain control signal $Sg1$ ($Sg2$) as an argument to provide a phase control signal Sc denoting a corresponding phase rotation amount to a vector multiplication circuit 117 (118). The vector multiplication circuit 117 (118) rotates a phase of an in-phase component $S13$ ($S23$) and a quadrature component $S14$ ($S24$) of an antenna 2 in the opposite directions. Thus, a phase rotation



amount by a reception amplifier is corrected so as to keep an input signal for each antenna a phase difference at antenna terminals.

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